CATTRON™ GROUP INTERNATIONAL

INDUSTRIAL RADIO REMOTE CONTROL

TOGGLE CONTROLLER

Durability Plus Lightweight Convenience

The Cattron® brand Toggle type controller has a unique shape and style that provides the equipment operator with a controller that is durable, lightweight, ergonomic and convenient. Designed for heavy-duty applications, this controller is ideal for a variety of indoor and outdoor industrial uses. The toggle controller employs advanced microcomputer electronics and utilizes surface mount technology. It can be used with all Cattron® brand AT and MP series receiver/decoder units. It can be used with existing systems as either a replacement or as a spare controller. In addition, the Cattron® brand toggle controller meets the FCC's requirements regaurding narrowband and 12.5 kHz band widths.

Durable Construction

The Cattron® brand Toggle controller has a highly advanced encoder circuit board which is built using industrial grade components, a powerful micro-computer, and sophisticated operating software. All components are protected by a thickwalled, epoxy-coated extruded aluminum case. The ends of the housing are rubberized metal plates that make shock absorbing end "bumpers". This housing carries a lifetime warranty.

Only the highest quality mil-spec toggle switches are used. These switches have gold-plated contacts and a pinned shaft to prevent damage from direct end-on impacts. Their reliability and construction has been field-tested and proven under extreme conditions. Total water and dust sealing makes the entire unit suitable for indoor and outdoor operation.

Power Source

The Cattron® brand Toggle controllers are powered with disposable Alkaline or rechargeable Ni-Cad batteries. In normal operation, a green LED blinks with each function command message. For added safety and improved performance, the operating voltage is regulated over the entire battery life, insuring constant range and reliable operations. When the battery becomes low, the green LED will change to red and a beeping sound will alert the operator that the battery needs to be changed or recharged. Whether you choose disposable or rechargeable batteries, changing the battery is easy - simply open the gasketed battery cover, drop the battery in place and close the cover.

Features

- **Use with most Cattron® brand AT or MP Series System**
- **FCC Narrowband complient models available**
- **Customized layout with custom-engraved nameplates**
- **Rugged design for use in harsh environments**
- **Rubberized end caps and switch gaurd**
- **Push to Operate (PTO) safety bar**
- **Two stage LED battery indicator with audible beep**
- **Power-on self-diagnostics**
- **Designed for Long battery life and ease of service**

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Operation

The Standard Toggle controller can be configured in a variety of ways and can include pushbuttons or paddles to meet the user's requirements. All functions are identified by durable custom engraved faceplates. A large safety bar is provided to function as an enabling device to all toggle switches. The large bar is easily and naturally activated by the palm of the operator's hand any time he places his hand into position to move the toggle switches. The push-to-operate(PTO) safety bar will electronically disconnect all lever switches when it is released, thus stopping motion commands from these switches. This feature is programmable. Certain applications may have some toggle switches removed from the control of the PTO bar. The Cattron® brand paddle controllers are equipped with a tilt switch to activate diagnostics and can be optionally programmed to send a function. This function can be assigned in the decoder for a viariety of operations, i.e., to stop the equipment, sound an alarm or both. Every paddle controller may also be equipped with an optional PC-conpatible diagnostic port.

Case Material:	Epoxy- coated aluminum extrusion with molded rubber end caps
Weight:	3.0 lbs (1.3 kg) with battery
Dimensions:	Approx. 9.8" H x 3.6" W x 4.1" D (25cm x 9.1cm x 10.4 cm)
Environmental:	-22° F to +140° F (-30° C to +60° C), Indoor/outdoor use; contact for extremes
Switch Types:	Toggle, Push Button, Paddle, Rotary, Lever type switches (stepped or stepless)
Number of Functions:	Up to 40 Digital and/or 2 Analog
Keylock Switch:	Optional (Power ON/OFF)
Antenna:	Internal standard or external optional
Additional Functions:	Contact factory or sales representative for details
Aux Functions:	Up to 15 digital ON/OFF
Push to Operate(PTO) bar:	Standard
Battery Voltage:	12.5 VDC nominal
Radio Transmitters:	UHF, pulsed packet data, FSK
Approvals:	USA, Canada, UK, South Africa, Brazil; Contact for complete listing
Power Output:	Variable - dependant upon application requirements and licensing limitations
Emission/Modulation:	14K0F1D +/-5 KHz deviation; 9K0F1D +/-2.5 KHz deviation (narrowband)
Operarting Range:	Greater than 300 ft. (93m) line of sight
Continuous Battery:	Alkaline ; Ni-Cad - Battery life dependant upon application
Carrying Case:	Optional shoulder strap and/or swivel belt clip, can also be used with ergonomic vest harness

*Specifications are subject to change or revision without notice. Consult the factory for verification.

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